

## In the Specification

Please amend the paragraph beginning at line 4 of page 1 as follows:

~~--This application is related to U.S. Patent Application 09/xxx,xxx "Method for Measuring Compactness of Data and Signal S<sub>ets</sub>" filed by Porikli on xxx.xx, 2001. This application is related to U.S. Patent Application 09/826,048 "Method for Determining Compactness of Data and Signal S<sub>ets</sub>," filed by Porikli on April 4, 2001. --~~

Please amend the paragraph beginning at line 5 of page 7 as follows:

--As shown in Figure 1, our invention arranges 100 scenes of a video 101, e.g., sequences of frames 1-N 102, into three-dimensional (3D) three-dimensional data structures *V* i.e., *video volumes* 111-113. The color, edge, and difference-map volumes 111-113 have identical spatial ( $x, y$ ) 104 and time ( $t$ ) 104 axes. Then, we apply advanced 3D processing techniques 200 to the video volumes 111-113 to robustly segment video objects into a multi-resolution hierarchy 600.--